



Features

- Large switching capacity up to 80A
 - PCB pin and quick connect mounting available
 - Suitable for automobile and lamp accessories
 - QS-9000, ISO-9002 Certified Manufacturing

Contact Data

Contact Arrangement	1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. (2 terminals)	
Contact Rating	Standard 1A 60A @ 14VDC 1B 40A @ 14VDC 1C 60A @ 14VDC N.O. 40A @ 14VDC N.C. 1U 2x25A @ 14VDC	Heavy Duty 80A @ 14VDC 70A @ 14VDC 80A @ 14VDC N.O. 70A @ 14VDC N.C. 2x25@ 14VDC

Contact Resistance	< 30 milliohms initial
Contact Material	AgSnO ₂ In ₂ O ₃
Max Switching Power	1120W
Max Switching Voltage	75VDC
Max Switching Current	80A

Coil Data

Coil Voltage VDC		Coil Resistance $\Omega \pm 10\%$	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.8W	70% of rated voltage	10% of rated voltage			
6	7.8	20	4.20	.6	1.80	7	5
12	15.6	80	8.40	1.2			
24	31.2	320	16.80	2.4			

General Data

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.

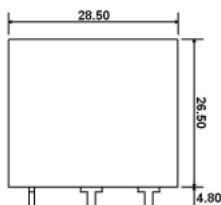
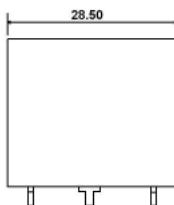
Ordering Information

1. Series	A3F	1C	S	Q	24VDC	2	
A3 standard							
A3F with mounting flange							
A3M with metal bracket							
2. Contact Arrangement							
1A = SPST N.O.							
1B = SPST N.C.							
1C = SPDT							
1U = SPST N.O. *only available with standard contacts							
3. Sealing Option							
S = Sealed *Sealing only available with heavy duty contacts							
C = Dust Cover							
4. Termination							
P = PCB Pins							
Q = Quick Connect							
5. Coil Voltage							
6VDC							
12VDC							
24VDC							
6. Contacts							
1 = Standard *Sockets for these models can be found on the CIT Relay Socket catalog page							
2 = Heavy Duty *We recommend the PR series socket from Custom Connector Corporation							
7. Coil Suppression							
Blank = Standard							
D = Diode (1N4005) Cathode on "86" terminal							
R = Resistor (180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 2VDC)							
2D = 2 Diodes (1N4005)							
DR = Diode & Resistor Cathode on "86" terminal (1N4005 & 180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 2VDC)							
** Consult factory if other values are needed							

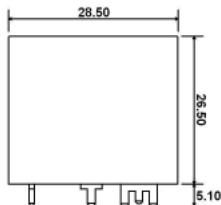
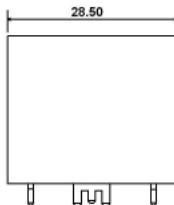
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Dimensions A3

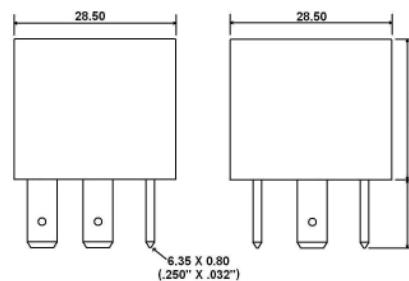
Units = mm



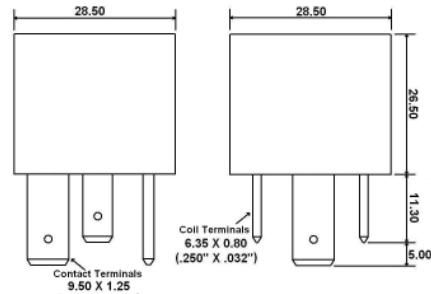
Standard contacts (1) with PC Pin



Heavy Duty contacts (2) with PC Pins



Standard contacts (1) with Quick Connect

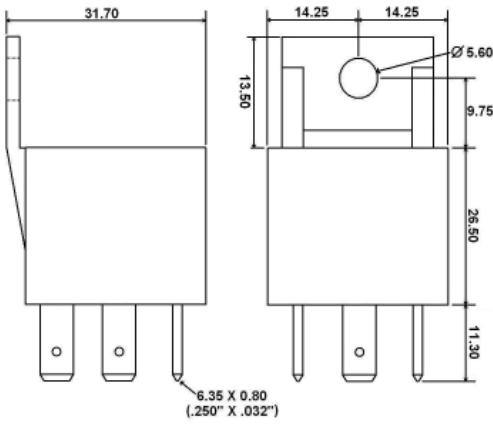


Heavy Duty contacts (2) with Quick Connects

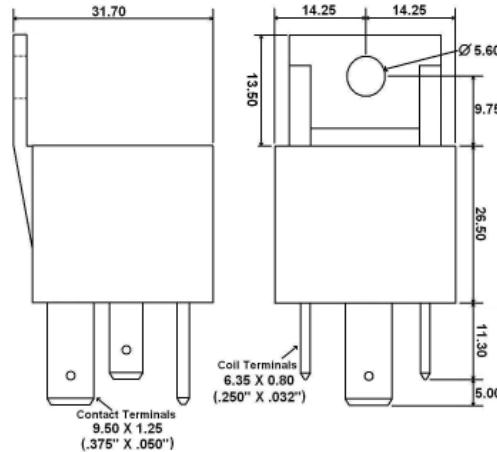
A3

Dimensions A3F

Units = mm



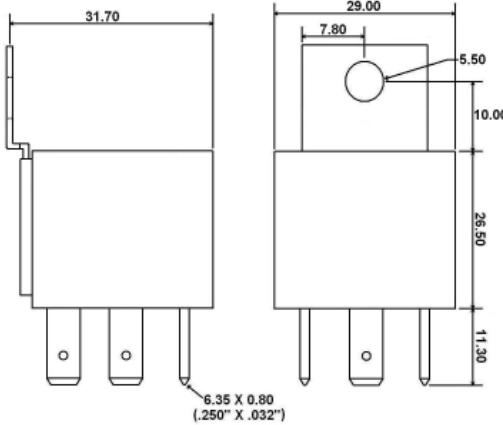
Standard contacts (1) with Quick Connect



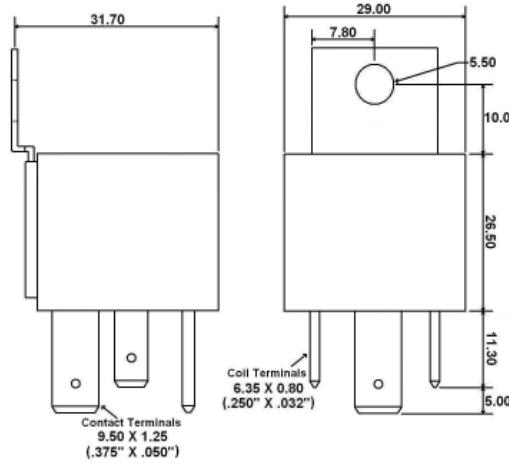
Heavy Duty contacts (2) with Quick Connects

Dimensions A3M

Units = mm



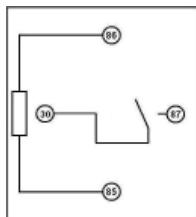
Standard contacts (1) with Quick Connect



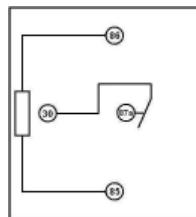
Heavy Duty contacts (2) with Quick Connects

Schematics, PC Pin Dimensions & PC Layouts

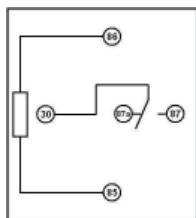
Bottom Views



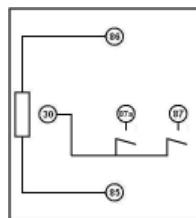
1A



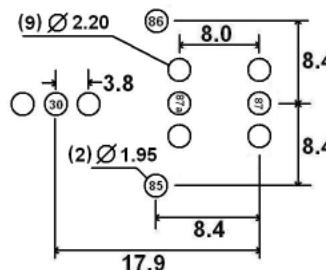
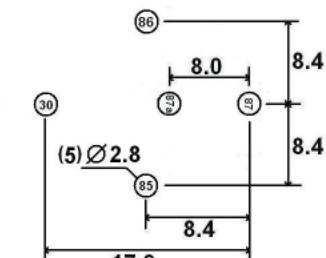
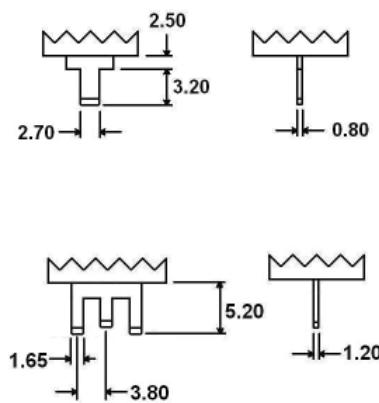
1B



1C



1U



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